

Title (en)

Loop impedance measuring apparatus and method for subscriber loop interface circuits

Title (de)

Apparat und Methode zum Messen der Impedanz von Teilnehmerschleife-Schnittstellenleitungen

Title (fr)

Méthode et dispositif de mesure de l'impédance pour des circuits d'interface de boucle d'abonné

Publication

**EP 1079591 A2 20010228 (EN)**

Application

**EP 00402336 A 20000822**

Priority

US 37896299 A 19990823

Abstract (en)

A subscriber loop interface circuit, with a method and apparatus for measuring loop impedance. Measurement of loop impedance including charging and discharging a capacitor (34) using current derived from loop current and loop voltage. The discharge time interval of the capacitor (34) may provide information on loop impedance. A look-up table (50) in a subscriber loop interface circuit may include previously calculated impedance values corresponding to discharge time. <IMAGE>

IPC 1-7

**H04M 19/00**

IPC 8 full level

**H04M 3/30** (2006.01); **G01R 27/00** (2006.01); **G01R 27/16** (2006.01); **H04Q 3/42** (2006.01)

CPC (source: EP KR US)

**G01R 27/00** (2013.01 - KR); **G01R 27/16** (2013.01 - EP US)

Designated contracting state (EPC)

CH DE FR GB IT LI SE

DOCDB simple family (publication)

**EP 1079591 A2 20010228**; **EP 1079591 A3 20030604**; **EP 1079591 B1 20050601**; DE 60020461 D1 20050707; DE 60020461 T2 20060427; JP 2001086237 A 20010330; KR 20010050155 A 20010615; US 6434232 B1 20020813

DOCDB simple family (application)

**EP 00402336 A 20000822**; DE 60020461 T 20000822; JP 2000250692 A 20000822; KR 20000048689 A 20000822; US 37896299 A 19990823